PATENT IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Joseph Phillip Bigus et al.	Art Unit: 2762
Serial No.:	09/100,595	Examiner: Unknown
Filed:	June 19, 1998	Atty. Docket No.: IBM/04B
For:	PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE	

TRANSMITTAL

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

We are transmitting herewith the attached:

Transmittal (in duplicate) containing Certificate of Mailing Under 37 CFR 1.8
Request for Corrected Filing Receipt
Copy of Preliminary Amendment
Copy of Filing Receipt Noting Correction
Reply Post Card.

Please charge any additional fees or credit overpayment to Deposit Account No. 23-3000.
A duplicate of this sheet is enclosed.

WOOD, HERRON & EVANS, L.L.P.
2700 Carew Tower
Cincinnati, Ohio 45202
(513) 241-2324

By: Scott A. Stinebruner Reg. No. 38,323

CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on August 3, 1998.

Scott A. Stinebruner Reg. No. 38,323

Application Ser. No. 09/100,595

Doc. No. 39,080-01
(IBM-04B)
RO996-052L

Please place the official stamp of the Patent Office on this card and return it to constitute acknowledgment by the Patent Office of receipt on the date stamped.

Inventor(s): Joseph Phillip Bigus et al.
Title: PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE

Enclosure(s): Transmittal (in duplicate) containing Certificate of Mailing Under 37 CFR 1.8
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Attorney: SAS/jlv

Date: August 3, 1998

Wood, Herron & Evans, L.L.P.

WOOD, HERRON & EVANS, L.L.P.
2700 CAREW TOWER
441 VINE STREET
CINCINNATI, OH 45202-2917

TO:

Assistant Commissioner for Patents
Washington, D.C. 20231

PTO-103X
(Rev. 8-95)

FILING RECEIPT

UNITED STATES DE. . .RTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
09/100,595	06/19/98	2762	$790.00	IBM/04B	9	16	1

SCOTT A STINEBRUNER
WOOD HERRON AND EVANS
2700 CAREW TOWER
CINCINNATI OH 45202

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

JOSEPH PHILLIP BIGUS, ROCHESTER, MN; BRIAN JOHN CRAGUN, ROCHESTER, MN; HELEN ROXLO DELP, ROCHESTER, MN.

CONTINUING DATA AS CLAIMED BY APPLICANT-
THIS APPLN IS A DIV OF 08/822,993 03/21/97

FOREIGN FILING LICENSE GRANTED 07/13/98
TITLE PROGRAM PRODUCT
APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE

PRELIMINARY CLASS: 395

PTO-103X
(Rev. 8-95)

FILING RECEIPT

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Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

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SCOTT A STINEBRUNER
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CINCINNATI OH 45202

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

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CONTINUING DATA AS CLAIMED BY APPLICANT-
THIS APPLN IS A DIV OF 08/822,993 03/21/97

FOREIGN FILING LICENSE GRANTED 07/13/98
TITLE
APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE

PRELIMINARY CLASS: 395

98 DEC 23 P12:58

Express Mail No. EL041891845US
PATENT

IBM/04B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Joseph Phillip Bigus et al.	Art Unit:	Unknown
Serial No.:	FILED HEREWITH	Examiner:	Unknown
Filed:	June 19, 1998	Atty. Docket No.:	IBM/04B
For:	PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE (As Amended)		

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Please amend the above-identified patent application as follows:

Amendments

In the Title

Please amend the title to read --PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE--.

In the Specification

At page 1, line 6, please insert the paragraph:

--This application is a divisional application of U.S. Serial No. 08/822,993, filed on March 21, 1997 by Bigus et al., entitled "APPARATUS AND METHOD FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE", which application is incorporated by reference herein.--

At page 1, lines 7-8, please delete "even date herewith" and substitute therefor --March 21, 1997--.

At page 1, line 8, please delete "Serial No. _____" and substitute therefor --Serial No. 08/821,935--.

At page 1, lines 10-11, please delete "Serial No. _____" and substitute therefor --Serial No. 08/822,119--.

At page 1, line 13, please delete "Serial No. _____" and substitute therefor --Serial No. 08/826,107--.

At page 28, lines 32-33, please delete "Serial No. _____" and substitute therefor --Serial No. 08/822,119--.

At page 31, line 28, please delete "Serial No. _____" and substitute therefor --Serial No. 08/821,935--.

At page 32, line 11, please delete "Serial No. _____" and substitute therefor --Serial No. 08/822,119--.

In the Claims

Please cancel claims 1-29 and 33-35 without prejudice.

Please add the following new claims 36-48:

--36. (New Claim) The program product of claim 30, wherein the program further includes an evaluation module configured to select the selected program module based upon the objective criteria.

37. (New Claim) The program product of claim 36, wherein the program further includes a reinforcement learning module, coupled to the evaluation module and configured to adaptively select program modules based upon the performance of the plurality of program modules in handling the computer task.

38. (New Claim) The program product of claim 37, wherein the reinforcement learning module comprises an adaptive heuristic critic neural network.

39. (New Claim) The program product of claim 36, wherein the evaluation module is configured to retrieve information for a selected computer task, determine a selected value for the objective criteria for the selected computer task, and select as the selected program module one of the plurality of program modules which is matched with the selected value of the objective criteria.

40. (New Claim) The program product of claim 36, wherein the evaluation module is implemented in an agent manager.

41. (New Claim) The program product of claim 36, wherein the evaluation module is implemented in the intelligent agent.

42. (New Claim) The program product of claim 36, wherein the intelligent agent includes only the selected program module from the plurality of program modules, and wherein the evaluation module is configured to construct the intelligent agent using the selected program module.

43. (New Claim) The program product of claim 36, wherein the intelligent agent includes each of the plurality of program modules, and wherein the evaluation module is configured to execute only the selected program module to handle the computer task.

44. (New Claim) The program product of claim 36, wherein the plurality of program modules are additive program modules, and wherein the evaluation module is configured to select a subset of the plurality of program modules to handle the computer task.

45. (New Claim) The program product of claim 36, wherein the plurality of program modules are alternative program modules, and wherein the evaluation module is configured to select only one of the plurality of program modules to handle the computer task.

46. (New Claim) The program product of claim 30, wherein the intelligent agent is configured to conduct negotiations in an electronic commerce application, and wherein the domain knowledge for each of the plurality of program modules is related to the autonomy delegated thereto.

47. (New Claim) The program product of claim 46, wherein the plurality of program modules includes a semi-autonomous program module, a fully-autonomous program module, and a fully-dependent program module.

48. (New Claim) The program product of claim 46, wherein the objective criteria includes a risk that a dispatched agent is subjected to in negotiations.--

Remarks

The above amendments are being made prior to the calculation of filing fees for the above-identified patent application. Moreover, the amendments are not directed to new matter, nor are they being made in response to any art-based rejection. Consideration and allowance of all pending claims is respectfully requested.

If there are any questions regarding this paper, or which might otherwise further this case onto allowance, please contact the undersigned at (513)241-2324. Moreover, if

ny other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,

19 JUNE 1998

Date

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Joseph Phillip Bigus et al.	Art Unit:	2762
Serial No.:	09/100,595	Examiner:	Unknown
Filed:	June 19, 1998	Atty. Docket No.:	IBM/04B
For:	PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE		

REQUEST FOR CORRECTED FILING RECEIPT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

This letter is for the purpose of requesting a corrected filing receipt for the above-identified patent application. The filing receipt received from the United States Patent and Trademark Office contains an error; namely, the title of the application was not amended as requested in the Preliminary Amendment filed with the application. Please delete "APPARATUS AND METHOD" and substitute therefor --PROGRAM PRODUCT-- so that the title correctly reads "PROGRAM PRODUCT FOR OPTIMIZING THE PERFORMANCE OF COMPUTER TASKS USING INTELLIGENT AGENT WITH MULTIPLE PROGRAM MODULES HAVING VARIED DEGREES OF DOMAIN KNOWLEDGE". Copies of the Preliminary Amendment and the original Filing Receipt with the correction noted are enclosed.

Applicants respectfully request that a corrected filing receipt be issued in this matter. If the Office has any questions regarding the foregoing, please contact the undersigned at

(513) 241-2324. Moreover, if any other charges or credits are necessary to complete this communication, please apply them to Deposit Account 23-3000.

Respectfully submitted,

3 AUG 1998
Date

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